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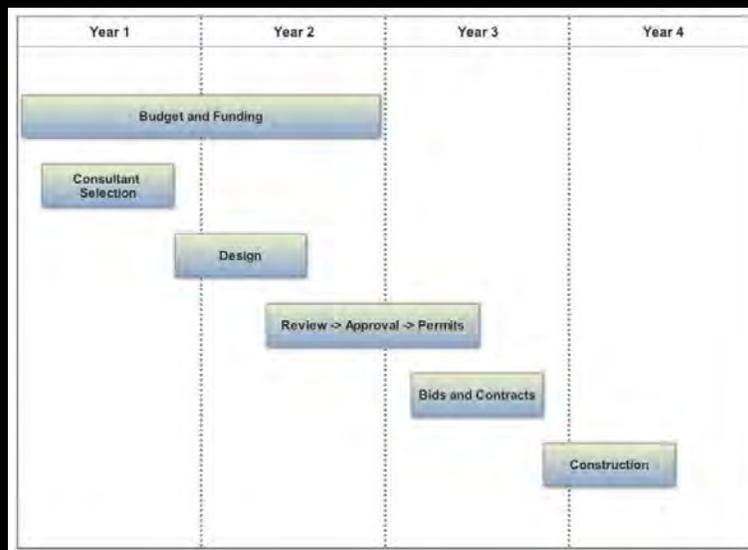
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SEMSWA Capital Improvement Program (CIP) Projects

- CIP Projects are Regional in Scope
 - Include Stream Channel Improvements, Regional Ponds, Structures identified in Major Drainageway Master Plans and Field Observations
- Project Prioritization based on:
 - Condition Assessment, and Risk to Private Property and Public Infrastructure
- Significant Backlog - \$160 million estimated from Master Plans
- CIP Projects are years in the making:
 - Budget and Funding
 - Design
 - Review / Approval / Permits – USCOE and FEMA
 - Bidding and Contracting
 - Construction (Fall to Early Spring)

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CIP Project Timeline



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2019 - New Laws and Regulations

Senate Bill 18-167 - Subsurface Utility Engineering (SUE)

- Legislation related to Colorado 811
- Requires higher level utility investigation and engineering certification where:
 - Excavation is greater than 2-foot depth, and
 - 1,000 contiguous square feet
- CIP engineering contracts recently updated to include requirements

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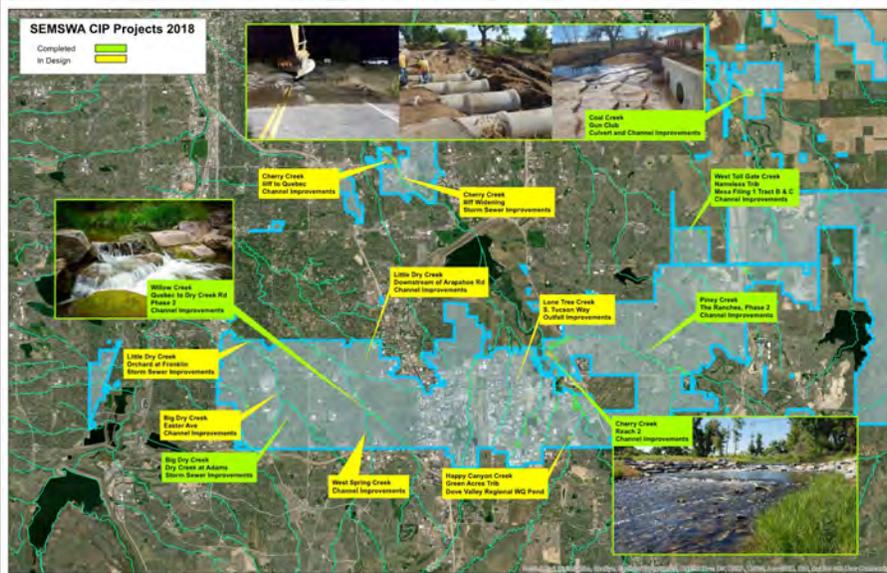
2019 - New Laws and Regulations

COR400000 - Stormwater Discharges Associated with Construction Activity

- CDPHE (Colorado Department of Public Health & Environment)
- April 1, 2019 - Owner and Contractor are joint permittees
- Stormwater Management Plan (SWMP) and inspections required
 - Ensure permit compliance during construction and through restoration completion

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2018 Completed Projects



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2018 Completed Projects:

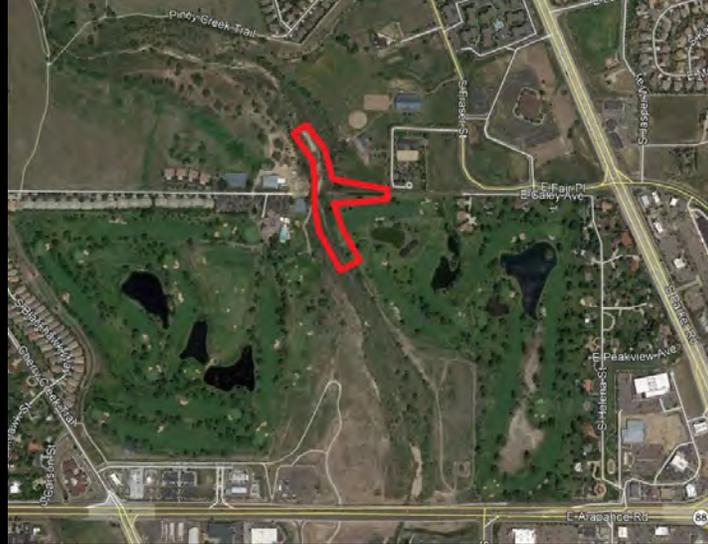
Total Cost

Cherry Creek Reach 2 Channel	\$ 3,090,000*
Piney Creek Reach 6, Phase 2 Channel	\$ 2,860,000*
Willow Creek Phase 2 Channel	\$ 2,000,000
Unnamed Tributary – Mesa Park Tract B	\$ 655,000
Dry Creek at Adams Storm Sewer	\$ 352,000
Coal Creek at Gun Club Culverts	\$ 587,000
	<u>\$ 9,544,000</u>

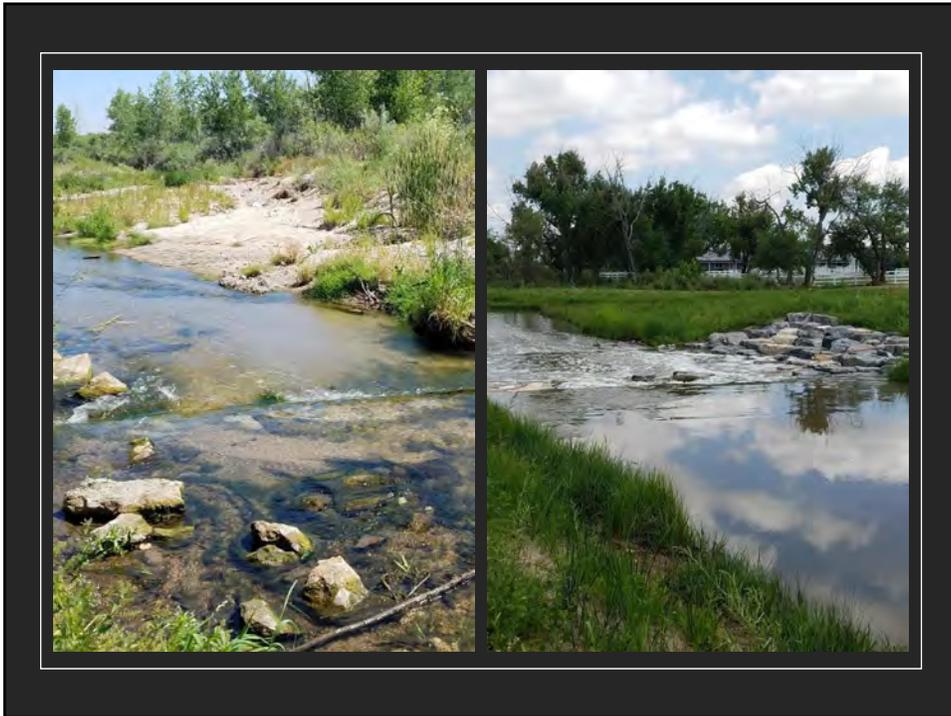
* in partnership with UDFCD, CCBWQA and others

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Cherry Creek Reach 2



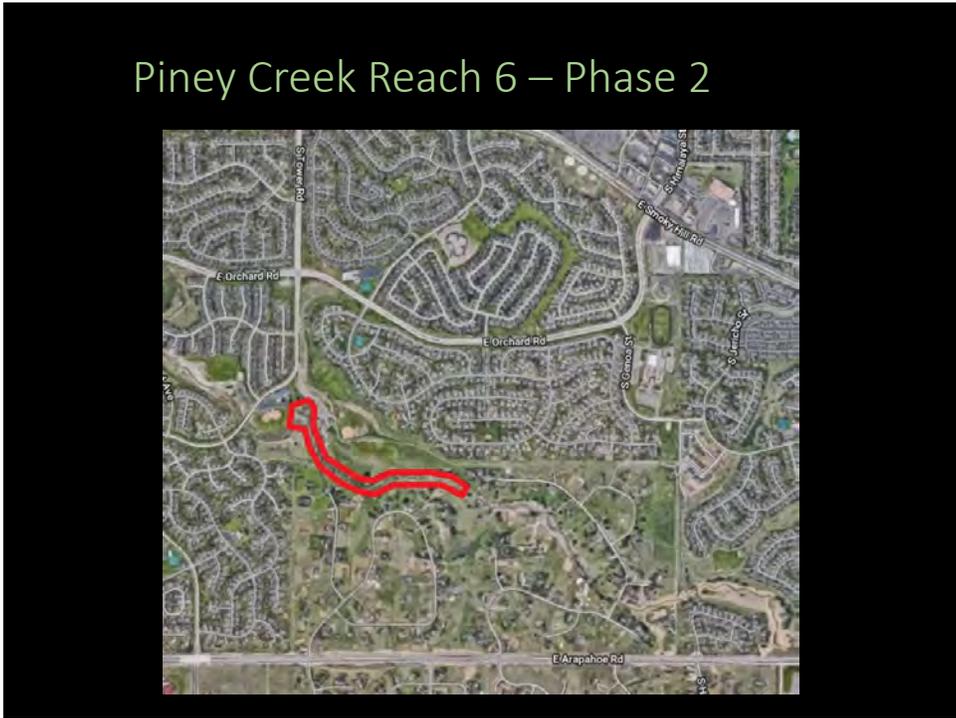
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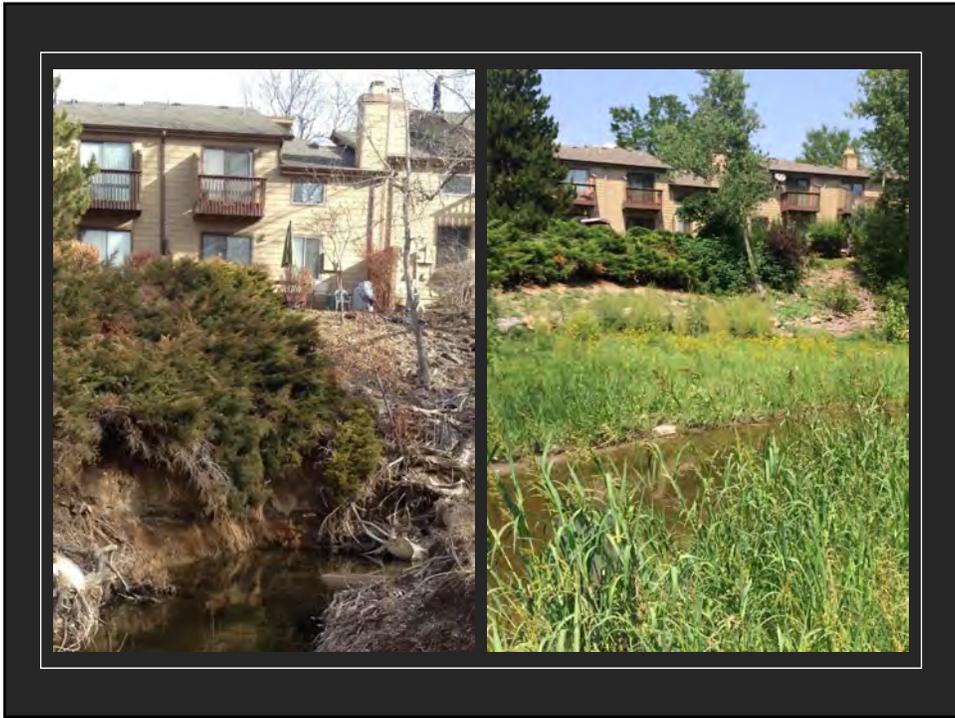
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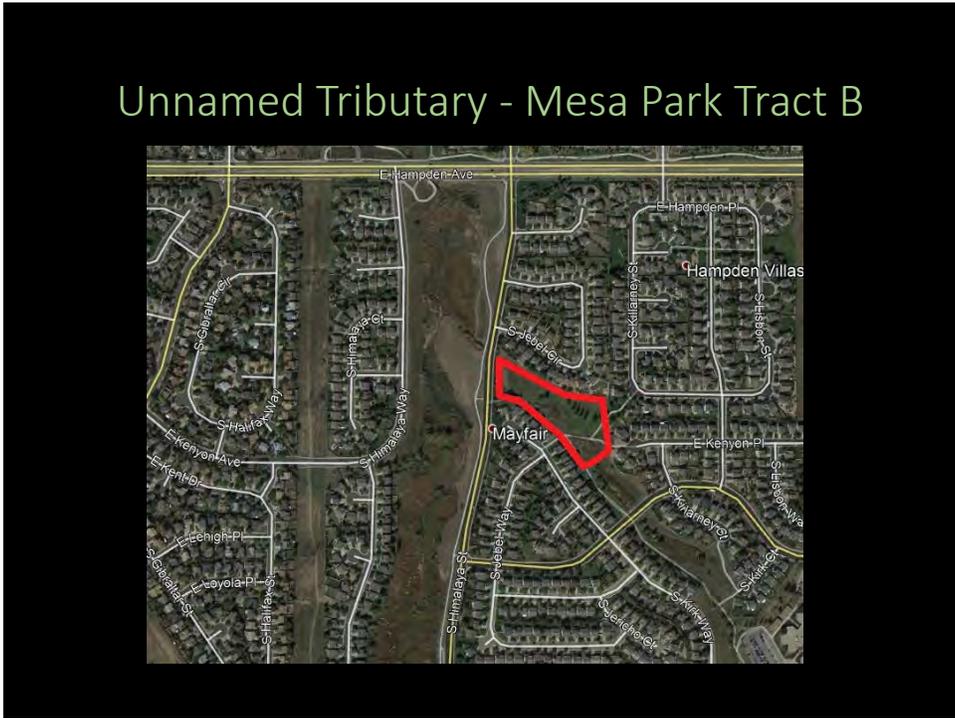
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Dry Creek at Adams Storm Sewer Outfall



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2019 Projects

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2019 Projects Status

Project	Status
Lone Tree Creek Tucson Way Storm Sewer Outfall	Summer Construction
Big Dry Creek at Easter Crossing & Channel Improvements	Fall Construction
Green Acres Tributary and Dove Valley Pond Improvements	Fall Construction
Little Dry Creek Downstream of Arapahoe Road	Fall Construction
E. Iliff Ave. Widening – Storm Sewer	Fall Construction
Big Dry Creek Reach 12 Channel Improvements	Design
Big Dry Creek Otero Tributary at Phillips Channel Improvements	Design
West Spring Creek Channel Improvements	Design
East Toll Gate Creek at Dove Hill Channel Improvements	Design
Orchard Road Widening at Franklin - Storm Sewer	Design

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Lone Tree Creek Tucson Way Storm Sewer Outfall



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Big Dry Creek at Easter Crossing and Channel Improvements



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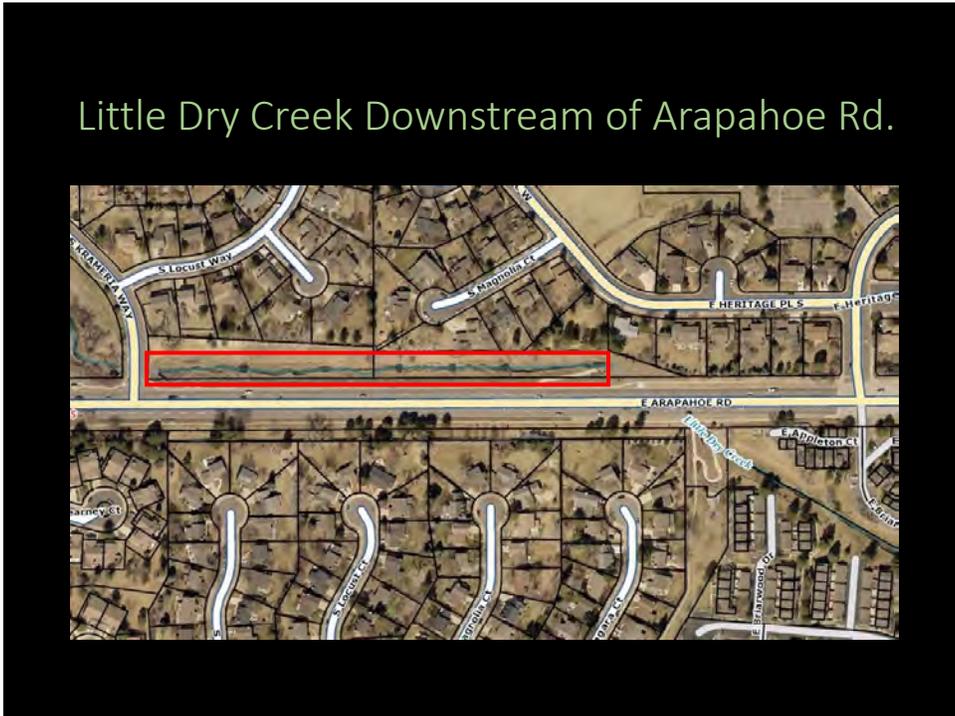
Green Acres Tributary Channel Stabilization & Dove Valley Pond



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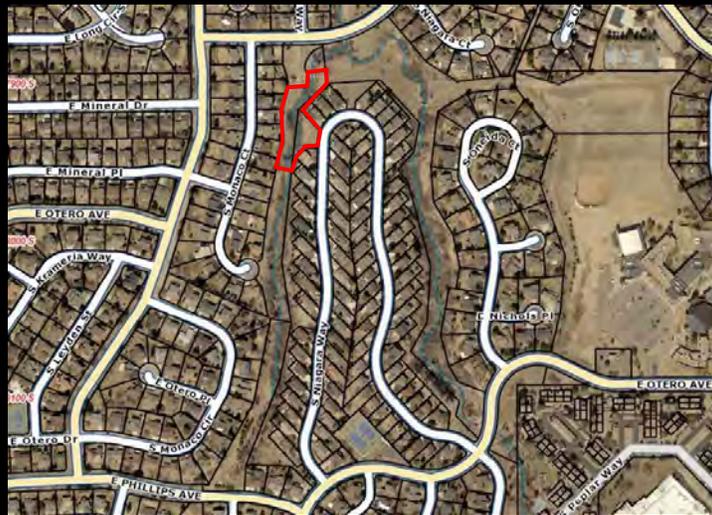


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West Spring Creek Channel Stabilization



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Figure 1. View of 3 failing timber retaining walls on the right (east) bank of West Spring Creek at 8019 S Niagara Way. The lower wall is being undermined by the creek.

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East Toll Gate Creek at Dove Hill Channel Stabilization



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2018 SEMSWA Maintenance Work Completed to clear heavy vegetation and re-establish flow path

2019 SEMSWA CIP Group to Design and Permit Master Planned Improvements to Continue Channel Work

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